

Amendment  
Serial No. 10/020,089  
Page 2

IN THE CLAIMS

Please cancel claims 4 and 12. Please rewrite claims 1, 5 9-11, 14-15 and 18-20.

1. (Currently Amended) A disc drive storage system comprising:
  - a housing having a central axis;
  - a stationary member that is fixed with respect to the housing and coaxial with the central axis;
  - a stator fixed with respect to the housing;
  - a rotatable member that is rotatable about the central axis with respect to the stationary member;
  - a rotor supported by the rotatable member and magnetically coupled to the stator;
  - at least one data storage disc attached to and coaxial with the rotatable member;
  - an actuator supporting a head proximate to the data storage disc for communicating with the disc; and
  - a hydrodynamic bearing interconnecting the stationary member and the rotatable member, the bearing having at least one working surface comprising including a wear resistant, low frictional coating having a thickness within a range of about 3000 nanometers to about 5 microns.
2. (Original) The disc drive storage system of claim 1 wherein the wear resistant low frictional coating comprises amorphous carbon, diamond-like carbon, hydrogenated amorphous carbon, nitrogenated amorphous carbon, hydrogenated diamond-like carbon, nitrogenated diamond-like carbon and combinations thereof.
3. (Original) The disc drive storage system of claim 1 wherein the wear resistant low frictional coating comprises two or more layers.

Amendment  
Serial No. 10/020,089  
Page 3

4. (Cancelled)
5. (Currently Amended) The disc drive storage system of claim 1 wherein the wear resistant low frictional coating is deposited by at least one of the physical vapor deposition (PVD), chemical vapor deposition (CVD) and plasma enhance ~~enhance~~ enhanced chemical vapor deposition (PECVD).
6. (Original) The disc drive storage system of claim 1 wherein the wear resistant coating is formed on an adhesive layer.
7. (Original) The disc drive storage system of claim 6 wherein the adhesive layer comprises chromium, silicon, titanium, zirconium, silicon carbide and combinations thereof.
8. (Original) The disc drive storage system of claim 6 wherein the adhesive layer has a thickness in the range of about 1 nanometer to about 1 micron.
9. (Currently Amended) The disc drive storage system of claim 6 wherein the adhesive layer is deposited by at least one of physical vapor deposition (PVD), chemical vapor deposition (CVD) and plasma ~~enhance~~ enhanced chemical vapor deposition ~~(PECVD)~~ (PECVD).
10. (Currently Amended) A motor comprising:
  - a housing having a central axis;
  - a stationary member that is fixed with respect to the housing and coaxial with the central axis;
  - a stator fixed with respect to the housing;
  - a rotatable member that is rotatable about the central axis with respect to the stationary member;

Amendment  
Serial No. 10/020,089  
Page 4

a rotor supported by the rotatable member and magnetically coupled to the stator; and

a hydrodynamic bearing interconnecting the stationary member and the rotatable member, the bearing having at least one working surface comprising including a wear resistant, low frictional coating having a thickness within a range of about 3000 nanometers to about 5 microns.

11. (Currently Amended) The motor of claim 10 wherein the wear resistant, low frictional coating comprises amorphous carbon, diamond-like carbon, hydrogenated amorphous carbon, nitrogenated amorphous carbon, hydrogenated diamond-like carbon, nitrogenated diamond-like carbon and combinations thereof.

12. (Cancelled)

13. (Original) The motor of claim 10 wherein the wear resistant low frictional coating comprises two or more layers.

14. (Currently Amended) The motor of claim 10 wherein the wear resistant low frictional coating is deposited by at least one of physical vapor deposition (PVD), chemical vapor deposition (CVD) and plasma ~~enhancee~~ enhanced chemical vapor deposition (PECVD).

15. (Currently Amended) The motor of claim 10 wherein the wear resistant, low frictional coating is formed on an adhesion layer.

16. (Original) The motor of claim 15 wherein the adhesion layer comprises chromium, silicon, titanium, zirconium, silicon carbide and combinations thereof.

Amendment  
Serial No. 10/020,089  
Page 5

17. (Original) The motor of claim 15 wherein the adhesion layer has a thickness in the range of about 1 nanometer to about 1 micron.

18. (Currently Amended) The motor of claim 15 wherein the adhesion layer is deposited by at least one of physical vapor deposition (PVD), chemical vapor deposition (CVD) and plasma enhance ~~enhance~~ enhanced chemical vapor deposition (PECVD).

19. (Currently Amended) A motor, comprising:  
a hydrodynamic bearing interconnecting a stationary member and a rotatable member, wherein the hydrodynamic bearing has at least one working surface; and  
the at least one working surface ~~has~~ includes a wear reducing means thereon having a thickness within a range of about 3000 nanometers to about 5 microns.

20. (Currently Amended) The motor of claim 19 wherein the wear reducing means is formed on an adhesion means.